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The Gazette of India

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सं० 5] नई दिल्ली, शनिवार, फरवरी 2, 1980 (माघ 13, 1901)
No. 5] NEW DELHI, SATURDAY, FEBRUARY 2, 1980 (MAGHA 13, 1901)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
Separate paging is given to this Part in order that it may be filed as a separate compilation.

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS & DESIGNS
Calcutta, the 2nd February 1980
PATENTS OFFICE BRANCH
MADRAS
SPECIAL NOTICE

The following holidays will be observed by the Patent Office Branch, Madras during the year 1980.

Name of Festival	Day of the week	Date
1	2	3
Pongal	Tuesday	15th January.
Republic Day	Saturday	26th January.
Telegu New Year's Day	Monday	17th March.
Mahavira Jayanti	Saturday	29th March.
Good Friday	Friday	04th April.
Tamil New Year's Day	Sunday	13th April.
Budha Purnima	Wednesday	30th April.
Id-UI-Fitr (Ramzan)*	Wednesday	13th August.
Independence Day	Friday	15th August.
Onam	Sunday	24th August.
Vinayaka Chaturthi	Second Saturday	13th September.
Mahatma Gandhi's Birthday	Thursday	02nd October.
Dussehra	Friday	17th October.
Ayudha Pooja	Saturday	18th October.
Iduz-Zuha (Bakrid)	Tuesday	21st October.
Deepavali	Thursday	06th November.
Muharam	Wednesday	19th November.
Guru Nanak's Birthday	Saturday	22nd November.
Christmas Day	Thursday	25th December.

*Subject to change depending on appearance of the Moon.

CORRIGENDA

(1)

In the Gazette of India, Part III, Section 2, dated the 31st March 1979, under the heading 'COMPLETE SPECIFICATIONS ACCEPTED'.

In page 197, column 2, line 13, against No. 146246—
for 'Patent Office, Madras Branch'
read Patent Office, Delhi Branch.

(2)

In the Gazette of India, Part III, Section 2, dated the 14th April 1979, under the heading 'COMPLETE SPECIFICATIONS ACCEPTED'.

In page 226 column 1, line 14, against No. 146282—
for 'Patent Office, Calcutta'
read 'Patent Office, Delhi Branch'.

(3)

In the Gazette of India, Part III, Section 2, dated the 28th April 1979, under the heading 'COMPLETE SPECIFICATIONS ACCEPTED'.

(1)

In page 257 column 1, line 16, against No. 146317—
for 'Patent Office, Calcutta'
read 'Patent Office, Delhi Branch'.

(4)

In the Gazette of India, Part III, Section 2, dated the 9th June 1979, under the heading 'COMPLETE SPECIFICATIONS ACCEPTED'.

(1)

In page 343, column 2, lines 3, 4 & 5 against No. 146458—
for IMPROVEMENTS IN OR RELATING TO THE
PREPARATION OF RESINS BASED ON POLY-
PHENOTIC COMPOUNDS.

read IMPROVEMENTS IN OR RELATING TO THE
METHOD OF PREPARATION OF RESINS AND
APPARATUS THEREFOR.

(2)

In page 343, column 2, lines 3, 4 & 5 against No. 146459—
for A METHOD OF MANUFACTURE OF METAL-
LIC MEMBERS FROM DIFFERENT METALS
IN INTEGRAL LAYERFORM.

read A METHOD OF MANUFACTURE OF METAL-
LIC MEMBERS FROM DIFFERENT METAL
ALLOYS IN INTEGRAL LAYER FORM AND
METALLIC MEMBERS MANUFACTURED BY
THE SAID METHOD.

(3)

In page 344 column 1, lines 3 & 4 against No. 146460—
for A SHANK ROD FOR USE WITH PNEUMATIC
DRILLS.

read A SLEEVE FOR USE WITH A PNEUMATIC

(5)

In the Gazette of India, Part III, Section 2, dated the 14th July 1979, under the heading 'COMPLETE SPECIFICATIONS ACCEPTED'.

(1)

In page 433, column 2, against No. 146575—

Insert 'Complete specification left on June 9, 1977' below
the Application No. 121/Bom/76 filed April 14,
1976.

(6)

In the Gazette of India, Part III, Section 2, dated the 18th August 1979, under the heading 'COMPLETE SPECIFICATIONS ACCEPTED'.

(1)

In page 494, column 2, line 7, against No. 146698—

for 'Application No. 2841/Del/1977 filed October 1,
1977'

read 'Application No. 284/Del/1977 filed October 1,
1977'

(7)

In the Gazette of India, Part III, Section 2, dated the 22nd September 1979 in page 565, Column 2 under the heading "PATENTS SEALED" delete number 145149.

(8)

In the Gazette of India, Part III, Section 2, dated the 20th October 1979 in page 633, Column 2 under the heading "PATENTS SEALED" delete numbers 145601 and 146089.

(9)

In the Gazette of India, Part III, Section 2, dated the 27th October 1979 in page 649, Column 2 under the heading "PATENTS SEALED" delete numbers 145909, 146104 and 146138.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

27th December, 1979

1345/Cal/79. Polysar Limited. Dilute solution apparatus. (March 28, 1979).

1346/Cal/79. Polysar Limited. Polymer characterization apparatus. (March 28, 1979).

1347/Cal/79. Union Carbide Corporation. Spheroidal polymerization catalyst, process for preparing and use for ethylene polymerization.

1348/Cal/79. Unilever Limited. Light duty liquid detergent composition.

1349/Cal/79. General Electric Company. Integral composite of polycrystalline diamond and/or cubic boron nitride body phase and substrate phase.

28th December, 1979

1350/Cal/79. P. C. Mehta. Filtering medium for water.

1351/Cal/79. Union Carbide India Limited. Improvements in or relating to the manufacture of 2-ethyl hexyl acetate.

1352/Cal/79. Union Carbide India Limited. Improvements in or relating to the production of 2-ethyl hexyl acetate.

1353/Cal/79. Union Carbide India Limited. Process for the production of 2-ethyl hexoic acid.

1354/Cal/79. A. Alikhan. Non-inverting fluid dispenser. (December 28, 1978).

1355/Cal/79. Cummins Engine Company, Inc. An exhaust brake modulating control system.

1356/Cal/79. Cummins Engine Company, Inc. Combined gear cover and mount for an internal combustion engine.

1357/Cal/79. Cummins Engine Company, Inc. Hydraulic attenuator for air fuel control pump.

29th December, 1979

1358/Cal/79. Voest-Alpine Aktiengesellschaft. Hollow cutting head.

1359/Cal/79. Voest-Alpine Aktiengesellschaft. Mine roof supporting structure.

1360/Cal/79. F. L. Smidth & Co. A/S Drv grinding a granular material. (December 29, 1978).

1361/Cal/79. Chemische Werke Huls Aktiengesellschaft and Ruhr-Stickstoff Aktiengesellschaft. α -substituted N-(trimethylecloalkenyl)-N-alkylacetamides and their use in phytotoxic preparations.

31st December, 1979

- 1362/Cal/79. Burmeister & Wain A/S. A method of manufacturing a crank arm for a welded crankshaft, and a pressing equipment for carrying out the method.

1st January, 1980

- 1/Cal/80. Lilly Industries Limited. Movel synergistic fungicidal formulations (a). [Divisional date March 20, 1978].
- 2/Cal/80. Lilly Industries Limited. Movel synergistic fungicidal formulations (B). [Divisional date March 20, 1978].
- 3/Cal/80. Lilly Industries Limited. Movel synergistic fungicidal formulations (C). [Divisional date March 20, 1978].
- 4/Cal/80. American Standard Inc. Hand brake for railway vehicles.
- 5/Cal/80. Ryazansky Radiotekhnicheskyy Institut. Device for polling channels of telemetering system.
- 6/Cal/80. Maschinenfabrik Buckau R. Wolf A.G. Process for the purification of waste gases with acid constituents.
- 7/Cal/80. Texaco Development Corporation. Process for the production of methanol, co-rich gas, and by-product oxygen-containing organic materials. [Divisional date March 13, 1978].
- 8/Cal/80. Texaco Development Corporation. Process for the production of acetic acid by-product oxygen-containing organic materials. [Divisional date March 13, 1978].
- 9/Cal/80. Hitachi Ltd. Electronic digital watch with multi-function.
- 10/Cal/80. Gould Inc. Method of removing copper ions from a bath containing same.
- 11/Cal/80. Combustion Engineering, Inc. Mechanism for rotating and reciprocating a soot blower.
- 12/Cal/80. Johnson & Johnson Products, Inc. Electrosurgical grounding pad.
- 2nd January, 1980
- 13/Cal/80. Maschinenfabrik Rieter A.G. Spinning rotor made from steel for open end spinning machines. (February 1, 1979).
- 14/Cal/80. Hitachi, Ltd. A complementary amplifier circuit.
- 15/Cal/80. Texaco Development Corporation. Manufacture of ethylene from synthesis gas.

APPLICATION FOR PATENT AT THE
(DELHI BRANCH)

26th November, 1979

- 847/Del/79. The General Tire & Rubber Company, "Adhesion of Glass Fibers to Rubber".
- 848/Del/79. G.D. Societa Per Azioni, "Device for Feeding and Adjusting a Continuous Web and for cutting it into Portions".
- 849/Del/79. Ruchchemie Aktiengesellschaft, "Measurement of Temperature in Reactors Operated at high Temperatures".

27th November, 1979

- 850/Del/79. Toyo Engineering Corporation, "Thermally Integrated Ammonia/Urea Process".
- 851/Del/79. Pont-A-Mousson S.A., "Large Diameter Pipe Joint with means for distributing Tensile Forces".
- 852/Del/79. American Radionic Co. INC., "Capacitor Lead Connection".

28th November, 1979

- 853/Del/79. Babcock Product Engineering Ltd., "Improvement in or relating to Grinding Mills". (December 1, 1978).

- 854/Del/79. Matti Juha-ni Siren, "A Filter Material".

- 855/Del/79. Pandrol Limited, "A Rail Clip and Apparatus for making it". (November 29, 1978).

- 856/Del/79. Clark & Vicario Corporation, "Method and Apparatus for Outflowing Liquids from Chamber maintained under Vacuum".

29th November, 1979

- 857/Del/79. Ashok Kumar & Vijay Kumar, "A Product".
- 858/Del/79. Racold Appliances Pvt. Ltd., "A Thermostat and to a Process for the Manufacture thereof".
- 859/Del/79. Racold Appliances Pvt. Ltd., "A Thermostat and to a Process for the Manufacture thereof".
- 860/Del/79. Synair Corporation, "Method of Bonding Urethane Formulations to Rubber".
- 861/Del/79. Kintyre Enterprises Limited, "Coal and Mineral Cleaning Process and Apparatus using Shock Frequency Separation". (December 18, 1978).
- 862/Del/79. Union Carbide Corporation, "Process for Separating Gas Mixtures for recovering Hydrogen and Nitrogen therefrom".

30th November, 1979

- 863/Del/79. Societe Franco-Belge Des Laminiers Eet Trefileries D'Anvers "Lamitref". "Process of Treatment of a Precipitation Hardenable Non-Ferro Material".

3rd December, 1979

- 864/Del/79. Metafix, "Security System".

4th December, 1979

- 865/Del/79. Bharat Heavy Electricals Ltd. "Multiflute Radiators for Transformer Cooling".
- 866/Del/79. Council of Scientific and Industrial Research, "A process for the preparation of 4-(2-Acetoxyethyl)-4-Aza-5 α -(Androstan-17 β -YL Acetata Methiodide (HS-523)" (Divisional date January 21st 1978).
- 867/Del/79. Olin Corporation, "Apparatus and process for making tube in sheet heat exchangers".
- 868/Del/79. Pittsburgh-Des moines steel company, "Floating roof drainage system."

5th December, 1979

- 869/Del/79. Council of Scientific and Industrial Research, "A process for the isolation of active principles from neem exhibiting oviposition deterrent activity against insect pests".
- 870/Del/79. Council of Scientific and Industrial Research, "A process for the manufacture of potassium carbonate from sodium carbonate using ion-exchange technique".
- 871/Del/79. Council of Scientific and Industrial Research, "A process for the preparation of pure manganese carbonate and its conversion to active manganese dioxide for dry cell".
- 872/Del/79. Stainco Enterprises Pvt. Ltd., "A spray dryer".
- 873/Del/79. Stainco Enterprises Pvt. Ltd., "A process for spraying drying of a feedstock".
- 874/Del/79. Dittakavi Subrahmanya Sharma, "A regulator for use with a generator".
- 875/Del/79. Dittakavi Subrahmanya Sharma, "A regulator for use with a generator".
- 876/Del/79. Marshall richards barero Ltd., "Improved wire drawing method and apparatus". (December 12, 1978, May 8, 1979, & January 30, 1979).
- 877/Del/79. The Laitram Corporation, "Ship Ladder".

878/Del/79 Exxon Research and Engineering Company, Modification of regenerated cellulose membranes for organic liquid permeation and the use of said membranes to recover selected organic liquids".

879/Del/79. Sciete Nationale Des Poudres Et Explosives, "Combustible objects, in particular combustible cartridge cases, which are heat-resistant"

6th December, 1979

880/Del/79. Council of Scientific and Industrial Research, "Improved method of fabrication of space joints and structure formed thereof".

881/Del/79. Council of Scientific and Industrial Research, "A process for the preparation of 17a-(2-Acetoxyethyl)- β -Pyrrolidino 17a-Az a-D-Homoandrost-5-Ene Dimethiodide (HS-627), 4-(2-Acetoxyethyl)-4-Aza-5 α -Androstan-17 β -YL Acetate Methiodide (HS-523), and 17a-(2-Acetoxyethyl) 17a-Aza-D-Homoandrost-5-EN-3 β -YL acetate methiodide (HS-465)". [Divisional date January 21, 1978]

882/Del/79. Council of Scientific and Industrial Research, "A process for the preparation of 17a-(2-Acetoxyethyl)- β -Pyrrolidino 17a-Aza-D-Homoandrost-5-Ene Dimethiodide (HS-627)". [Divisional date January 21, 1978.]

APPLICATIONS FOR PATENTS FILED AT BOMBAY BRANCH

17th December 1979

350/Bom/1979. Subhash Janardan Kulkarni, Choke less welding transformer.

351/Mom/1979. Searle (India) Limited α -Cyano-3-Phenoxybenzyl-2-(4-chlorophenyl)-3-Methyl Butanoate.

18th December 1979

352/Bom/1979. Desai Haribhai Jeshangbhai Mahadevwas, Foot Valve with free ball-ball-shcet-rod guide arrangement.

19th December 1979

353/Bom/1979. Kirloskar Engineering Pvt. Limited, Electronic air cleaning device.

20th December 1979

354/Bom/1979. Avinash Bhaskar Ranade, improvements in or relation to monoblock pumping sets.

355/Bom/1979. Vijay Dettatraya Parkhe, Improvements in or relation to the stoves, gas lights, and like operations.

356/Bom/1979. Vijay Dettatraya Parkhe, Improvements in or relating to a device of light on automobiles, vehicles or like operations.

21st December 1979

357/Bom/1979. Hoechst Pharmaceuticals Limited, A process for preparing novel 1-carbalkoxy 4-substituted iminoquinolizidines.

358/Bom/1979. Hoechst Pharmaceuticals Limited, Process for preparing pharmacologically active pyrimido (6, 1-a) isoquinolin-4-one derivatives. (Divisional Date : 10th December, 1976).

APPLICATION FOR PATENTS FILED AT THE (MADRAS BRANCH)

24th December, 1979

229/Mas/79. D. S. Sarma. Electronic Temperature Indicator-cum-controller.

26th December, 1979

230/Mas/79. Jabin Road Transport (P) Ltd. Structural Elements for forming a Closed Structure such as a box or container or like and a Closed Structure prepared thereby.

27th December, 1979

231/Mas/79. Jabin Road Transport (P) Ltd. Improvements in or Relating to Trucks, Lorries and the like Load Carrying Vehicles.

ALTERATION OF DATE

147340.

374/Del/79.

Ante-dated the 29th September, 1977

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 50E₃.

147319.

Int. Cl.-F25d 11/00.

REFRIGERATION APPARATUS INCLUDING NOISE DAMPENING MEANS.

Applicant : CARRIER CORPORATION, OF SYRACUSE, NEW YORK, UNITED STATES OF AMERICA.

Inventor : CARL JAMES DE GROAT.

Application No. 480/Cal/77 filed March 29, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

Refrigeration apparatus comprising a shell defining a lubricating oil sump, a motor-compressor unit resiliently mounted within said shell, said compressor including a crankshaft connected to the rotor of said motor to rotate therewith; first pump means having its inlet submerged in the oil contained in said sump to supply said oil to lubricate said compressor; secondary pump means including an inlet for receiving a portion of said lubricating oil contained in said sump to agitate said oil and to cause any refrigerant entrained therein to separate therefrom as a refrigerant gas, and distributor means to receive said agitated oil and separated refrigerant gas and direct said oil and gas radially outward through the oil stored in said sump to reduce the noise transmission capability of said stored oil.

Comp. Specn. 14 Pages.

Drg. 2 Sheets.

CLASS 8 & 68D.

147320.

Int. Cl.-H02h 1/00, G08b 77/00.

A FIRE DETECTING AND ALARM DEVICE.

Applicant & Inventor : JAGDISH PRAKASH MATHUR C/O. A. B. MATHUR, FLAT NO. 12, 57, ELLIOT ROAD, CALCUTTA, WEST BENGAL, INDIA.

Application No. 77/Cal/78 filed January 19, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A fire detecting and alarm device wherein a set of fire detectors are installed in various locations of a premises, the device comprising a set of relays and one or more audio and

visual alarm devices, a first relay B being an alarm relay, a second relay A being a control relay, each of the said relays having three sets of contacts, one of the contacts A11 of the relay A being connected to the power line of low voltage power supply, said contacts A11 being in the detectors ready to function position connected to the fire detectors arranged in series, the power supply circuit to the said fire detectors being completed by connection to contact A7 of relay A which contact through contact A8 and a switch S6 is connected to one end of the coil of relay B, the other end of the said coil being connected to the neutral, whereby when, due to fire at any fire detector, causes interruption in the power supply, the power supply to coil of the relay B is interrupted thereby causing one contact of relay B to establish contact with one terminal of the circuit to bell 14, the other points of the bell 14 being already connected to low voltage power supply.

Comp. Specn. 17 Pages.

Drg. 1 Sheet.

CLASS 56A.

147321.

Int. Cl.-B01d 3/00, B01J 1/00.

AN IMPROVED LIQUID GAS CONTACTING TRAY.

Applicant : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

Inventor : ROBERT DUNCAN KIRPATRICK, DAVID WILLIAM WEILER.

Application No. 158/Del/78 filed February 27, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

20 Claims.

In a circular-edged liquid-gas contacting tray of the slotted sieve-type for effecting intimate contact between rising vapor and liquid flowing across a member of the tray having main flat top and bottom surfaces from a liquid inlet at one edge of said tray member along a liquid flow path on said main top surface including a diverging flow section adjacent said inlet to a liquid discharge at an opposite edge of said tray member, with a plurality of fixed sized openings distributed across said member and extending therethrough with walls normal to said main flat top and bottom surfaces for gas flow, and a plurality of elevated portions formed from said member across said surfaces each with an upper surface raised from said main flat top surface having a front leading edge separated from said main flat top surface to form an elongated slot opening therewith of greater width than height, the raised upper surface being inclined to said main flat top surface and having a back edge integral with such surface and each elevated portion being spaced from adjacent elevated portions by said main flat top surface entirely surrounding such elevated portion, the improvement comprising : a first band portion of said tray member adjacent to said liquid inlet and extending therefrom downstream for distance at least 20% of the length of the tray diametral streamline from said liquid inlet to the tray transverse centerline and extending transversely outwardly from vicinity of the tray diametral streamline for distance at least 25% of the transverse length of said liquid inlet, with angular orientation of slot openings in said tray member first band portion with respect to and away from the tray diametral streamline such that the slot angle of individual slots is greater than the angle formed by the diametral streamline and a tangent line at the tray member outer edge at the point of intersection with said liquid inlet, and with the density of slotting in said first band portion such that the ratio of the total area of the slot openings therein to the total active area of said first band portion is between 0.0001 and 0.30.

Comp. Specn. 74 Pages.

Drg. 5 Sheets.

CLASS 206E.

147322.

Int. Cl.-H01c 9/00.

IMPROVEMENT IN OR RELATING TO A PROCESS OF MANUFACTURING OF THIN FILM RESISTORS, RESISTOR NETWORKS AND/OR HYBRID CIRCUITS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA.

Inventors : SUBHAS CHANDRA BAWA, DWARAKA PRASAD RUNTHAL AND BALKRISHNA RAMCHANDRA MARATHE.

Application No. 318/Del/77 filed October 14, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

4 Claims.

An improved process for making of thin film resistors, resistor network and/or hybrid circuits by depositing resistive and conductive layers on a substrate and applying photolithographic techniques for removing desired parts of the deposited layers from the substrate characterised in that both predeposited conjugative layers of the resistive and conductive materials respectively are formed on the substrate before applying the said photolithography techniques.

Comp. Specn. 10 Pages.

Drg. 2 Sheets.

CLASS 198D.

147323.

Int. Cl.-B01J 2/00.

IMPROVED PROCESS FOR DEMINERALISATION OF COAL, BY OIL AGGLOMERATION TECHNIQUE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-1, INDIA.

Inventors : GOUR GOPAL SARKAR, BARID BARAN KONAR AND SUKDEB SAKHA.

Application No. 229/Del/77 filed September 8, 1977.

Addition to No. 144163.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

8 Claims.

An improved process for the demineralisation of coal by oil-agglomeration technique as claimed in our prior Indian Patent No. 144163, characterised in that the grinding and conditioning of coal and associated minerals is carried out in a colloid mill and the agglomeration step is carried out in a horizontal tubular cell apparatus with a stirrer and a baffle arrangement to form compact and hard pellets.

Comp. Specn. 6 Pages.

Drg. 3 Sheets.

CLASS 6B & B 107G.

147324.

Int. Cl.-F01n 3/14.

A PROCESS FOR PURIFYING THE EXHAUST GASES GIVEN OFF BY DIESEL TYPE INTERNAL COMBUSTION ENGINES.

Applicant : PECHINEY UGINE KUHLMANN, OF 23, RUE BALZAC 75008 PARIS, FRANCE.

Inventors : BERNARD PAUL HENRI HUE, HENRI ANTOINE MERCIER.

Application No. 372/Del/77 filed November 3, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

1 Claim No drawings.

A process for purifying the exhaust gases given off by a diesel type internal combustion engine, which comprises passing the exhaust gases through a metallic chamber, having incorporated therein crisscrossed metallic wires covered with a deposit of calcined alumina obtained from an alkaline aluminate solution, said alumina having a specific surface area of at least 120m² per gram, said chamber being placed within the exhaust circuit of the engine, the temperature of the alumina being of at least 250°C and the duration of contact of the gases with the alumina being at least 0.3 second.

Comp. Specn. 12 Pages.

Drgs. Nil.

CLASS 69A & M.

147325.

Int. Cl.-H01h 9/00.

INTERMITTENTLY OPERABLE ELECTRICAL SWITCH ASSEMBLY.

Applicant : LUCAS INDUSTRIES LIMITED, OF GREAT KING STREET BIRMINGHAM B19 2XF, ENGLAND.

Inventor : MAURICE HARROLD.

Application No. 1901/Cal/76 filed October 18, 1976.

Convention date November 8, 1975/(46304/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

An intermittently-operable electrical switch assembly comprising an electrically insulating base having a pair of opposed surfaces; first second and third electrical terminals mounted on said base in spaced relation and extending from one of said opposed surfaces thereof, said first, second and third electrical terminals being for respective connection to an electrical power supply, an electrical apparatus to be operated intermittently by said switch assembly, and an indicator lamp or indicator lamps; an electrically conducting fixing element securing each of said first, second and third electrical terminals to said base, each said fixing element being electrically connected with its respective electrical terminal and extending through said base to the other of said opposed surfaces thereof; a first support mounted on the said other surface of said base, said first support terminating at one end adjacent the fixing element for said second electrical terminal and at its other end adjacent the fixing element for said third electrical terminal; an electrical winding on said first support, said first support providing a core therefore, said electrical winding being disposed with its axis substantially parallel to said base; an armature mounted on said first support at the said one end thereof and extending substantially parallel to said electrical winding axis; a first fixed electrical contact mounted on the said other surface of said base adjacent the said other end of the first support, said first fixed electrical contact being electrically connected to the fixing element for the third electrical terminal and being engageable by said armature, said armature normally being biased away from said first fixed electrical contact but being engaged with said fixed electrical contact when said electrical winding is energised in use; a second support mounted on the said other surface of said base and including a portion upstanding from said base and a mounting flange integral therewith, said mounting flange extending in a direction transversely of said electrical winding axis and terminating at one end adjacent the fixing element for the second electrical terminal and at its other end adjacent the fixing element for the first electrical terminal, said second support being secured to said base by means of said mounting flange; a snap-action circuit breaker mounted on said upstanding portion of said second support; a second fixed electrical contact carried by the said other surface of said base and engageable with said circuit breaker; and a heat-expansive element normally biasing said circuit breaker into a first position and being arranged, when heated by an electric current passing there through in use, to release said circuit breaker to move into a second position, said circuit breaker engaging said second fixed electrical contact in one of its said first and second positions.

Comp. Specn. 19 Pages, Drg. 2 Sheets.
CLASS 14A, 147326.
Int. Cl.-H01m 35/00.

APPARATUS FOR PRODUCING ENVELOPED BATTERY PLATES.

Applicant : GLOBE-UNION INC., OF P.O. BOX 591, 5757 NORTH GREEN BAY AVENUE, MILWAUKEE, WISCONSIN 53201, U.S.A.

Inventor : KENNETH ARNOLD ANDERSON.

Application No. 445/Cal/77 filed March 25, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

Apparatus for enveloping battery plates in heat sealable separators, said apparatus comprising; separator dispensing means for sequentially dispensing separators from a stack of

heat sealable separator sheets; first roller means supported adjacent said separator dispensing means for receiving said separators from said dispensing means and directing them away from said dispensing means, folding means supported adjacent said first roller means for receiving said separators from said first roller means and folding said separators, said folding means comprising first guide means for guiding said separators along a first path of movement, second guide means spaced from said first guide means for receiving said separators from said first guide means and guiding said separators along a second path of movement angularly displaced from said first path, stop means for limiting the travel of said separators in said second guide means to cause said separators to buckle forming a buckled portion in said separators, and second roller means for receiving the buckled portion of said separators and for folding said separators and directing them away from said folding means; plate dispenser means disposed ahead of said folding means for directing battery plates edgewise into said folding means and between the folded portions of said separators and into said second roller means whereby said separators are folded against opposite sides of said battery plates; and ultrasonic sealing means for receiving said folded separators and enclosed battery plates from said second roller means and for heat sealing at least the edges of said separators adjacent the fold line of said separators to form an envelope.

Comp. Specn. 21 Pages, Drg. 3 Sheets.
CLASS 39L & 70C, 147327.
Int. Cl.-C01g 45/02, B01k 1/00, 3/02.

IMPROVEMENTS IN OR RELATING TO AN ELECTROCHEMICAL PROCESS FOR PRODUCING MANGANESE DIOXIDE.

Applicant : INSTITUT NEORGANICHESKOI KHIMII I ELEKTROKHIMII AKADEMII NAUK GRUZINSKOI SSR, ULITSA Z. RUKHADZE, 1, PORPUS 9, TBILISI, USSR AND INSTITUT PROBLEM MATERIALOVEDENIA AKADEMII NAUK UKRAINSKOI SSR, ULITSA KRAZHIVANOVSKOGO, 3, AKADEMGORODOK, KIEV, USSR.

Inventors : LEVAN NIKOLAEVICH DZHAPARIDZE, TEMUR ALEXANDROVICH CHAKHUNASHVILI, VERA DOMINOVNA MAISURADZE, RAUL VLADIMIROVICH CHAGUNAVA, ZURAB YASONOVICH KERVASHVILI, NODAR GEORGIEVICH SIGHARULIDZE, DALI GEORGIEVNA OTIASHVILI AND ALEXEI PAVLOVICH EPIK.

Application No. 1159/Cal/77 filed July 28, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims. No drawings.

An improved electrochemical process for producing manganese dioxide is characterised by electrolysis a solution of manganese sulphate containing 100 to 150 g/l of manganese sulphate and 20 to 30 g/l of sulphuric acid having a temperature of from 90 to 95°C at an anodic current density of from 20 to 100 A/m² and using a titanium electrode coated with a layer of titanium carbide with a thickness of from 50 to 100 mμ as anode and a conventional cathode.

Comp. Specn. 9 Pages, Drgs. Nil.
Class 69-L, 147328.
Int. Cl.-H03k 7/10.

A. C. SWITCHING DEVICE.

Applicant & Inventor : JURY SEMENOVICH BARANIK, ZELENORAD, KORPUS 439, KV. 29, MOSCOW, USSR. (2) VIKTOR YAKOVLEVICH YAKOVLEV, ZELENORAD, KORPUS 105, KV. 58, MOSCOW, USSR AND MIKHAIL IVANOVICH BESSONOV, KUIBYSHEVSKOI OBLASTI, ULITSA MRA, 130, KV. 43, TOLYATTI, USSR.

Application No. 1224/Cal/77 filed August 6, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

An a.c. switching device comprising an a.c. source, whereto there is connected an a.c. rectifier whose output is connected to a threshold element and to a voltage limiting circuit, their

outputs being connected to a logical inhibit circuit connected to an electric circuit which comprises two logical coincidence circuits, the first input of one of said coincidence circuits being connected to the output of the logical inhibit circuit, its other input being the control input of the whole a.c. switching device, whereas the first input of the second logical coincidence circuit is connected to the output of the logical inhibit circuit, in inverter whose input is connected to the control input of the a.c. switching device, while its output is connected to the second input of the second logical coincidence circuit, a flip-flop whose set and reset inputs are respectively connected to the outputs of both logical coincidence circuits, the output of said flip-flop being connected to a former of a signal for actuating a switching element, connected to the control input of the switching element whose other input is connected to the a.c. source, while its output is connected to the load.

Comp. Specn. 13 Pages. Drg. 4 Sheets.
CLASS 93 & 129G. 147329.
Int. Cl.-B22f 1/00, 9/00, C23c 7/00.

PROCESS FOR THE PREPARATION OF METAL POWDERS BY SPRAYING TECHNIQUE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-1, INDIA.

Inventors : KALYA JAGANNATH RAO, MUSUNURU RATNAGIRI RAO.

Application No. 26/Del/76 filed November 9, 1976.

Complete Specification left February 4, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims. No drawings.

A process for preparation of metal powders by spraying technique which comprises spraying the metal wire by means of a metallizing gun into a quenching bath.

Comp. Specn. 8 Pages. Drgs. Nil.
CLASS 107B. 147330.
Int. Cl.-F02g 5/00.

A SUPERCHARGED INTERNAL COMBUSTION ENGINE ASSEMBLY.

Applicant : ETAT FRANCAIS REPRESENTED BY LE DELEGUE MINISTERIEL POUR L'ARMEMENT, OF 14 RUE SAINT-DOMINIQUE, 75997 PARIS ARMEES, FRANCE, STATE OF FRANCE.

Inventors : JEAN MELCHIOR, THIERRY ANDRE AND MICHEL DE LAMBERT DE BOISJEAN.

Application No. 685/Cal/76 filed April 21, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A supercharged internal combustion engine assembly comprising : an internal combustion engine having variable volume combustion chambers supercharged by a supercharging turbocompressor unit having a compressor and a turbine; pipe means connecting the outlet of the compressor to the intake of the engine; bypass conduit means with a throttle device, said by-pass conduit means having an inlet and an outlet connected to direct the air delivered by said compressor and not drawn in by the engine to the inlet of said turbine and said throttle device realising pressure drop which is substantially independent of the ratio of the flow rate traversing said bypass conduit means to the air flow delivered by the compressor and increases with the output pressure of the compressor; an auxiliary combustion chamber connected to receive at least part of the air which circulates along said bypass conduit means and to receive the exhaust gas of said engine and having an outlet connected to the inlet of said turbine; throttling means with a variable passage cross-sectional area, arranged to be traversed by the air flowing through said pipe means and disposed therein down-stream of the junction of said bypass conduit means with said pipe means, and control means operatively associated with said throttling means for automatically limiting the rate of the air flow taken by the engine when the unit delivers a fraction only of its maximum rated power and maintaining said rate of air flow taken by the

engine at a lower value than the air flow delivered by the compressor.

Comp. Specn. 24 Pages. Drg. 3 Sheets.
CLASS 107B. 147331
Int. Cl.-F02g 5/00.

A SUPERCHARGED INTERNAL COMBUSTION ENGINE ASSEMBLY.

Applicant : ETAT FRANCAIS REPRESENTED BY LE DELEGUE MINISTERIEL POUR L'ARMEMENT, OF 14 RUE SAINT-DOMINIQUE, 75997 PARIS ARMEES, FRANCE, STATE OF FRANCE.

Inventors : JEAN MELCHIOR AND THIERRY ANDRE.

Application No. 686/Cal/76 filed April 21, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

A supercharged internal combustion engine assembly comprising : an internal combustion engine having variable volume combustion chambers, a supercharging turbocompressor unit having a compressor and a turbine, the inlet of said turbine being connected to receive the exhaust gas of said engine, pipe means connecting the outlet of said compressor to the intake of said engine, bypass conduit means having an inlet and an outlet always connected and open during operation of said turbocompressor unit to flow the air delivered by said compressor and not drawn by said engine to the inlet of said turbine with a pressure drop which, if appreciable, is substantially independent of the flow rate in the bypass conduit and increases with the output pressure of said compressor, heat exchanger means located upstream of the junction of the inlet of said bypass conduit means with said pipe means and operable to exchange heat between the pressurized air flow from said compressor to the engine and to said bypass conduit means and the gas flow from the turbine outlet to atmosphere, and air cooling means located in the air path between said compressor and the intake of said engine downstream of the junction of the inlet of said bypass conduit means with said pipe means so as to be flown only by the air drawn by said engine.

Comp. Specn. 28 Pages. Drg. 2 Sheets.
CLASS 65Ba. 147332.
Int. Cl.-H01f 19/00.

TRANSFORMER.

Applicant : LUCAS INDUSTRIES LIMITED, OF GREAT KING STREET, BIRMINGHAM, ENGLAND.

Inventor : ALEC HARRY SEILLY.

Application No. 293/Cal/77 filed March 1, 1977.

Convention date November 27, 1976/(49586/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

An electrical transformer comprising a core structure formed from magnetizable material and at least a pair of electrical windings wound upon the core structure, one of said windings forming the primary winding of the transformer and the other winding or windings forming the secondary winding or windings, the core structure comprising a first element of tubular form which is shaped to define an even number of helical slots arranged in the manner of a two or a multiple of two, start thread, and a second element of tubular form extending across the open ends of slots, each winding extending along one of said slots and returning along an adjacent slot.

Comp. Specn. 8 Pages. Drg. 1 Sheet.
CLASS 29A. 147333.
Int. Cl.-G06f 15/00.

MICROCOMPUTER SYSTEM INCLUDING AT LEAST TWO PROCESSORS UTILISING BUS INTERCONNECTION STRUCTURE.

Applicant : GENERAL ELECTRIC COMPANY, OF 1, RIVER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

Inventors : CHARLES LOUIS DEVIIN AND CHARLES WILLIAM FICHLBERGER.

Application No. 343/Cal/77 filed March 8, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

A microcomputer system including at least first and second substantially independent processors, shared memory means for storing data, and control means connected to said shared memory means and to each of said substantially independent first and second processors to selectively connected said shared memory means to said processors in response to service requests received by said control means from said processors, said control means connecting said shared memory means to that one of said processors requesting service if only one such service request is received by said control means/and to that one of said processors which last received service if two or more said service requests are received at the same time by said control means.

Comp. Specn 38 Pages.

Drgs 2 Sheet.

CLASS 160A.

147334.

Int. Cl.-B62d 23/00.

MAIN FRAME ASSEMBLY FOR ROAD VEHICLES.

Applicant & Inventor : NORMAN FREDERICK WATSON, AND STONEFIELD DEVELOPMENTS (PAISLEY) LIMITED, OF CHIPPINGS, SCATTERDELS ROAD, CHIPPERFIELD, HERTFORDSHIRE, ENGLAND AND 5 GLASGOW ROAD, PAISLEY PA1 3QS, SCOTLAND, ENGLAND.

Application No. 857/Cal/77 filed April 18, 1977.

Convention date April 20, 1976/(15921)/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

A main frame assembly for a road vehicle comprising two parallel spaced side frames each comprising a continuous upper beam and a plurality of lower beams, the upper beam of each side frame being connected to those lower beams of the side frame which are in the same vertical plane as the upper beam by connecting members which are not diagonally braced, the lower beams of the two side frames also being connected to each other along the length of the side frames by spaced cross members which are not diagonally braced, and the upper beams being connected together towards their forward end only so as to define a generally U-shaped load space open at one end, two of the beams for each side frame being spaced inwardly from the others to define wheel recesses.

Comp. Specn. 15 Pages.

Drg. 4 Sheets.

CLASS 32F, & 55D_a.

147335.

Int. Cl.-C07c 69/00.

A METHOD FOR THE PREPARATION OF M-PHENOXYBENZYL ESTERS OF 2-HALOALKYL (OXY-, THIO-, SULFINYL-, OR SULFONYL) PHENYLALKANOIC ACIDS USEFUL AS INSECTICIDAL AND ACARICIDAL AGENTS.

Applicant : AMERICAN CYNAMID COMPANY, AT WAYNE, NEW JERSEY, UNITED STATES OF AMERICA.

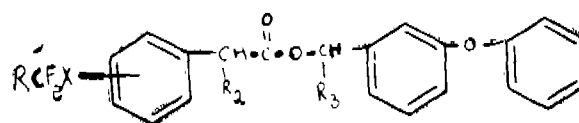
Inventors : GERALD BERKELHAMMER AND VENKATARAMAN KAMESWARAN.

Application No. 1654/Cal/77 filed November 28, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

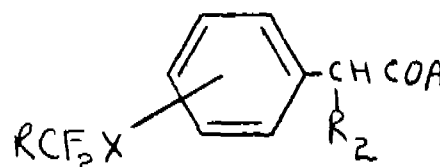
15 Claims.

A method for the preparation of a compound having the formula I.



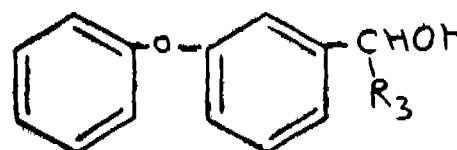
Formula I

wherein the RCF₂X-substituent is *meta* or *para* to the carbon to which the alkanolic acid ester group is attached, and X is S, O, SO or SO₂; and wherein R is F, Cl, CHF₂ or CF₃; R₂ is ethyl, *n*-propyl, isopropyl, *t* butyl or isopropenyl; R₃ is H or CN; comprising treating a compound having the structure shown in Formula I.



Formula II

where RCF₂X is in *m*-or *p*-position, A is halogen and X, R and R₂ are as described above; with a *m*-phenoxybenzyl alcohol having the formula III.



Formula III

wherein R₃ is as described above, in the presence of a tertiary organic amine as acid acceptor and an inert organic solvent at a temperature of from 10°C 30°C.

Comp. Specn. 55 Pages.

Drg. 25 Sheets.

CLASS 97H & 108B₁.

147336.

Int. Cl.-C22b 5/10.

METHOD AND APPARATUS FOR REDUCING PARTICULATE IRON OXIDE TO METALLIC IRON WITH SOLID REDUCTANT.

Applicant : MIDREX CORPORATION, OF ONE NCNB PLAZA, CHARLOTTE, NORTH CAROLINA 28280, UNITED STATES OF AMERICA.

Inventors : DONALD BEGGS AND BRUCE GILBERT KELLEY.

Application No. 39/Cal/78 filed January 11, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

35 Claims.

Apparatus for reducing particulate iron oxide to metallic iron with a solid reductant, said apparatus comprising :

(a) a shaft furnace having a particle introducing means generally at the top thereof and a reduced particle removal means at the bottom thereof for establishing a gravitationally descending burden therein;

(b) means for passing an electric current through said burden, including an external source of electric power;

(c) a gas outlet in the upper region of said furnace for removing top gas;

(d) means external to said furnace for cooling and cleaning removed top gas, said cooling and cleaning means communicating with said means for removing top gas; and

(e) means communicating with said top gas cooling and cleaning means and with the interior of said furnace for returning cooled and cleaned top gas to said furnace in the lower region thereof.

Comp. Specn. 22 Pages.

Drg. 5 Sheets.

CLASS 32F^c

147337.

Int. Cl.-C07c 35/12.

IMPROVEMENTS IN OR RELATING TO THE PREPARATION OF LAEVO-MENTHOL.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-1, INDIA.

Inventors : SHRI KIKKERI JAGANNATH DIVAKAR, DR. SHARAD BHIMASHANKAR KULKARNI AND DR. ALEVOOR SOMASEKAR RAO.

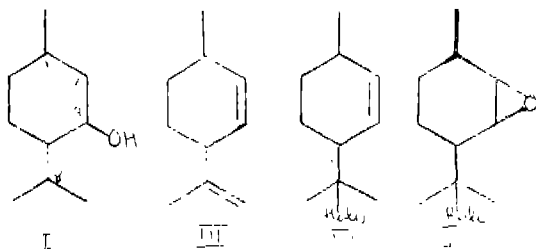
Application No. 48/Del/77 filed March 15, 1977.

Complete Specification left March 15, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

7 Claims.

Improved process for the manufacture of laevo-menthol of formula I.



comprises halogenation of isolimonene (III) to trans-8-halo-p-menth-2-ene (IV), epoxidation of the reaction product to obtain 2,3-oxido-8-halo-p-menthane (V) and reduction of the epoxide formed characterised in that the reduction of the epoxide (VI) is effected by catalytic hydrogenation to obtain a mixture of alcohols rich in laevo-menthol (I) and separation of the laevo-menthol therefrom by conventional methods.

Prov. Specn. 4 Pages. Comp. Specn. 7 Pages. Drg. 1 Sheet.

CLASS 47C.

147338.

Int. Cl.-C10b 39/00.

IMPROVED METHOD OF PRODUCING AND COOLING HOT AGGLOMERATES OF FUEL.

Applicant : ALLIS-CHALMERS CORPORATION, OF 1126 SOUTH 70TH STREET, WEST ALLIS 14, WISCONSIN, UNITED STATES OF AMERICA.

Inventor : EUGENE ANDRES THIERS.

Application No. 403/Del/78 filed May 30, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

7 Claims

A method of producing and cooling hot agglomerates of the type used for fuel to prevent oxidation of the agglomerates upon contact with atmosphere and to regenerate process gas, wherein a fuel material such as coking coal or a mixture of fine coal, char, and non-coking agglomerates, is continuously moved through a furnace in a direction counter to the flow therethrough of process gases which serve to preheat the material to form char, and then continue to heat the material to devolatilize the coal and form coke agglomerates of plastic consistency, characterized by the steps of:—

(a) introducing CO₂ rich gas into the formed agglomerates at a cooling stage in their production where

the agglomerates are at a temperature in the range of 100° to 600°F.,

(b) heating the CO₂ gas in the cooling stage to a temperature to initiate the reaction (1) CO₂ + C → 2 CO to cause unreacted carbon in the hot agglomerate to react,

(c) moving the gas to a heat-hardening and carbonization zone,

(d) continuing the heating of the gas for a duration to cause the reaction (2) CO + 1/2 O₂ → CO₂ and to elevate the temperature to a range of 1200°F to 2350°F,

(e) collecting the CO₂ gas produced by step (d) and

(f) reintroducing the CO₂ gas as cooling gas into the process according to step (a).

Comp. Specn. 14 Pages.

Drg. 1 Sheet.

CLASS 47A.

147339.

Int. Cl.-C10b 57/02.

IMPROVED PROCESS OF CONTINUOUSLY PRODUCING FORMED COKE.

Applicant : ALLIS-CHALMERS CORPORATION, OF 1126 SOUTH 70TH STREET, WEST ALLIS 14, WISCONSIN, UNITED STATES OF AMERICA.

Inventor : EUGENE ANDRES THIERS.

Application No. 405/Del/78 filed May 30, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Delhi Branch.

8 Claims.

A process of continuously producing formed coke, characterized by the steps of : introducing a mixture of fine coal, char, and non-coke agglomerates into a vertical shaft furnace for movement of said mixture downwardly through successive preheating, devolatilization, and cooling sections of said furnace, preheating the mixture in the preheating section of the furnace to a temperature of 700°F. to 1000°F. to form char and initiate devolatilization of the coal, raising the temperature of the preheated mixture within said lower devolatilization section of the furnace to a temperature of 1200°F to 2400°F. to complete devolatilization and form discrete coke agglomerates having a plastic consistency, cooling the plastic-consistency coke agglomerates in said lower cooling section with cool CO₂ gas reclaimed from the furnace to reduce the temperature of the coke agglomerates to a range of 600°F. to 100°F. to harden the coke agglomerates, and screening the downwardly moving hardened coke and char to separate the formed coke agglomerates from the char which is recycled through the furnace leaving the coke agglomerates as the desired product to be continuously discharged from the furnace.

Comp. Specn. 16 Pages.

Drg. 1 Sheet.

CLASS 108C^a & C₄ & C₅.

147340.

Int. Cl.-C21c 5/56.

METHOD OF CONCENTRATING THE IRON PRESENT IN A LOW GRADE IRON ORE.

Applicant : HAZEN RESEARCH, INC., OF 4601 INDIANA STREET, GOLDEN, COLORADO, UNITED STATES OF AMERICA.

Inventor : FRANK MOF STEPHENS, JR.

Application No. 374/Del/79 filed May 25, 1979.

Division of Application No. 275/Del/77 filed September 29, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

3 Claims. No drawings.

A method of concentrating the iron present in a low grade iron ore by subjecting it to magnetic attraction and segregating material having some magnetic susceptibility from material having negligible or no magnetic susceptibility which is characterised by the initial step of increasing the magnetic

susceptibility of particles of ore by converting a substantial proportion of iron oxide in the ore into iron carbide which has greater magnetic susceptibility than the iron oxide.

Comp. Specn. 5 Pages.

Drugs. Nil.

OPPOSITION PROCEEDINGS

The application for patent No. 145704 made by Kirloskar Oil Engines Limited in respect of which an opposition was entered by Fenner (India) Limited as notified in Part III, Section 2 of the Gazette of India dated the 23rd June 1979 has been treated as abandoned.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hasting Street, Calcutta, at two rupees per copy :—

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143331 143616 145149 145281 145601 145909 146020 146089
146104 146138 146377 146412 146437 146440 146444 146445
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146481 146482 146483 146486 146491 146494 146498 146500

AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

The amendment proposed by Atlas Copco Aktiebolag, in respect of patent application No. 129675 as advertised in Part III, Section 2 of the Gazette of India dated the 25th August, 1979 has been allowed.

(2)

The amendments proposed by Chinoin Gyogyszer Es Vegyeszeti Termek Gyara RT in respect of patent application No. 144635 as advertised in Part III, Section 2 of the Gazette of India dated the 25th August, 1979 has been allowed.

LIST NO. 3

COMMERCIAL WORKING OF PATENTED INVENTIONS

The following Patents in the filed of Chemical Engineering Industry are not being worked Commercially in India, as admitted by the Patentees in the statements filed by them under section 146(2) of the Patents Act 1970, in respect of Calendar Year 1978, generally on account of want of requests for licenses to work the patented inventions. Persons who are interested to work commercially the said patents may contact the Patentees for the grant of Licenses for the above purposes.

S. No.	Patent No.	Date of Patent	Name of Patentee	Title of Invention
1	2	3	4	5
1	130811	1-4-71	SHELL INTERNATIONALE RE- SEARCH MAATSCHAPPIJ B.V. Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Improvement in or relating to polymeri- zation of olefins.
2	130813	1-4-71	RHONE-POULENE INDUSTRIES, 22 Avenue Montaigne, Paris, France.	Depositing precious metals on a metallic support.
3	130841	5-4-71	HINDUSTAN LEVER LTD., 165/166, Hindustan Lever House, Backbay Re- clamation, Bombay M. S. India.	Built laundry soap containing dispro- portionate resin.
4	130891	7-4-71	UOP INC., 10 UOP-Plaza, Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Lubricating oil base stock production.
5	130903	8-4-71	ROHM AND HASS CO., Independence Mall West, Philadelphia, Pennsylvania, U.S.A.	Modified Vinyl halide polymers.
6	130923	12-4-71	STAMICARBON N.V. Ven der Maes- enstraat, 2, Heerlen, The Nether- lands.	Corrosion resistant austenitic stainless steel.
7	130928	12-4-71	FARBWERKE HOECHST AG. 45 Bruningstrasse, Frankfurt/Main, FRG.	Process for daylight fluorescent pigments
8	130948	13-4-71	KENNEDY VAN SAUN CORP., Beavey Street, Danville, Pennsylvania U.S.A.	Process and apparatus for preheating limestone and the like.
9	130977	14-4-71	SUI ZER BROTHERS LTD. Winter- thur, Switzerland.	A storage device for filamentary materials,
10	130981	14-4-71	HINDUSTAN LEVER LTD., 165/166 Backbay Reclamation, Bombay, M.S. India.	Metal cleaning process.
11	130993	16-4-71	IMPERIAL CHEMICAL INDUSTRIES LTD., Millbank, London, England.	Glass reinforced polymer composites.

1	2	3	4	5
12	131044	20-4-71	GENERAL ELECTRIC CO. 1, River Road, Schenectady, New York, U.S.A.	Producing sintered cobalt-rare earth intermetallic product.
13	131046	20-4-71	SHINETSU CHEMICAL CO., Mamnuchi, Chiyoda-Ku, Tokyo, Japan.	Preparing Polyvinyl chloride by suspension polymerization.
14	131090	23-4-71	RHONE-POULENE INDUSTRIES, 22 Avenue Montaigne, Paris, France.	Preparing chloride and alkali phosphate solution.
15	131098	24-4-71	INSTITUTE FRANCAIS DU PETROLE DES CARBURANTS ET LUBRIFIANTS, 1-4 avenue de Bois-Preau, 92 Rueil Malmaison, France.	Dehydrogenating saturated hydrocarbons.
16	131205	3-5-71	IMPERIAL CHEMICAL INDUSTRIES, LTD., Imperial Chemical House, Millbank, London, England.	Separating acid gases in particular carbondioxide from gaseous mixture.
17	131215	4-5-71	SOLVAY & CIE, 33 rue du Prince Albert B-1050, Brussels, Belgium.	Polymerization of olefins.
18	131235	4-5-71	CENTRAL GLASS CO., LTD 5253 Oaza Okiube, Ube-shi, Yamaguchi-ken, Japan.	Production of high quality synthetic cryolite
19	131248	5-5-71	SANKYO CO. LTD. 1-6, 3-Chome, Nihonbashi, Honch, Chuo-ku, Tokyo, Japan.	Soil fungicides.
20	131282	7-5-71	SHELL INTERNATIONALE RESEARCH MAATSH, Appij B.U. Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Apparatus for manufacture of sulphur.
21	131299	8-12-71	HINDUSTAN LEVER LTD., 165/166 Hindustan Lever House, Backbay Reclamation, Bombay, M.S. India.	Preparing a Nickel hydrogenation catalyst.
22	131386	17-5-71	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. The Hague, The Netherlands.	Epoxidising Olefins with hydroperoxide for producing oxirane compounds.
23	131405	18-5-71	INTERNATIONAL NICKEL LIMITED, Thames House, Millbank, London, England.	Treatment of corrosion-resistant chromium containing alloys.
24	131458	22-5-71	SNAMPROGETTI SP. A. 16, Corsovenecia, Milan, Italy.	Dehydrating Ammonia Synthesis gases.
25	131468	24-5-71	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. 30, The Hague, The Netherlands.	Catalytic Polymerization of Olefins.
26	131469	24-5-71	Do.	Isomerization of alkylaromatic hydrocarbons.
27	131518	28-5-71	EISENWERK-GESSELLSCHAFT MAXIMILIANSHUTTE mbH, Sulzbach-Rosenberg, Hutte, West Germany.	Method and converter for Refining pig iron.
28	131530	30-6-71	EISENWERKE-GESELLSCHAFT MAXIMILIANSHUTE, mbH, Sulzbach-Rosenberg, Hutte, West Germany.	Steel Manufacture.
29	131536	29-5-71	STAMICARBON N.V. Van der Maesestraat-2, Heerlen, The Netherlands.	Recovery of Ammonia and Carbon dioxide.
30	131552	31-5-71	HEOCHST A.G. 6230 Frankfurt/Main F.R.G.	Manufacture of Acylacetic acid arylamides.
31	131567	2-6-71	RYOSUKE ENYA, 3620, Shinichie, Murazumi Cho, Thikari City, Japan.	Making calcium carbide.
32	131609	5-6-71	HYDROCARBON RESEARCH INC., 155 Broadway New York, State of New York, 10006, U.S.A.	Low sulphur fuel oil.
33	131670	10-6-71	SUMITOMO CHEMICAL CO. LTD., 15 Kitabama, 5-Chome, Higashi-Ku, Osaka, Japan.	Dying fibrous material with cationic dyes.
34	131777	18-6-71	L' AIR LIQUIDE, 75 Quai D' Orsay 75007, Paris, France.	Removing carbon monoxide from Hydrogen gas.
35	131782	18-6-71	UOP INC., 10 UOP Plaza, Algonquin and Mt. Prospect Road, Des Plaines, Illinois, U.S.A.	Black Oil conversion process.
36	131810	21-6-71	Do.	Solvent Recovery process.
37	131852	23-6-71	IMPERIAL CHEMICAL INDUSTRIES LTD., Imperial Chemical House, Millbank, London, England.	Stipping coated titanium Electrodes.

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38	131913	29-6-71	METALLGESELLSCHAFT, 16 Frankfurt AM, Ruterweg 14, West Germany.	Production of Aluminium fluoride.
39	131938	30-6-71	HEOCHEST A.G., Frankfurt/Main FRG.	Dyestuff dispersions and process of preparing the same.
40	131939	30-6-71	Do.	Preparing water soluble metalliferous diazo dyestuffs.
41	131954	1-7-71	USS ENGINEERS & CONSULTANTS INC. Pittsburgh, State of Pennsylvania, U.S.A.	Determining the oxygen content of a fluid comprising gas molten metal, and liquid.
42	131968	2-7-71	HOECHST A.G. Frankfurt/Main FRG.	Manufacturing novel watersoluble mono-azo dyestuffs.
43	132024	7-7-71	INSTITUTE FRANCAIS DU PETROLE DES CARBURANTS ET LUBRIFIANTS, 1-4-92 Rueil-Malmaison, France.	Selective hydrogenation of Petroleum in gasoline range.
44	132031	8-7-71	HOECHST AG. Frankfurt/Main FRG.	Manufacture of fast dying, printing on fibre materials containing cellulose.
	132046	9-7-71	UOP INC, 10 UOP Plaza Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	High octane unleaded gasoline products.
46	132048	9-7-71	Do.	Solid phosphonic acid catalyst.
47	132080	24-1-72	UNION CARBIDE CORPORATION, 270 Park Avenue, New York State of New York, U.S.A.	Absorption of acid gas Impurities.
48	132086	12-7-71	HALDOR FREDERIK AXEL TOPSOE, Frydenlundsvej, Trorod Pr, Vedback, Denmark.	Purifying crude methanol.
49	132192	21-7-71	UNITED STATES STEEL CORPORATION, 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Cement clinkers and the method of making the same.
50	132232	24-7-71	UOP, INC, Des Plaines, Illinois, U.S.A	Removal of selected components of gas stream by absorption.
51	132263	27-7-71	OSTERREICHISCH-AMERIKANISCHE MAGNET A.G., Badenthein, Carinthia, Austria.	Production of sintered refractory materials.
52	132282	28-7-71	THE LUBRIZOL CORPN. Cleveland, U.S.A.	Thickened aqueous composition containing acrylamido alkanesulphonate polymers useful as hydraulic fluids.
53	132284	28-7-71	TEXACO DEVELOPMENT CORPN., Cleveland, Ohio, 44117, U.S.A.	Process for producing lubricant containing polymeric products.
54	132288	30-3-70	MONSANTO COMPANY, 800 North Lindberg Boulevard, St. Louis, Missouri, U.S.A.	Isopropylidinediamino ethanol salt of P-niro-benzenesulfonyl urea and its preparation.
55	132309	20-4-72	HINDUSTAN LEVER LTD., Bombay, India.	A process for preparing an instant Tea Powder.
56	132365	3-8-71	HOECHST A.G. Frankfurt/Main FRG.	Process for preparation of water soluble monoazo dyestuffs.
57	132397	5-8-71	CHIEF SCIENTIST R & D Organization, Ministry of Defence, Government of India, New Delhi.	Preparation of an adhesive for bending.
58	132454	10-8-71	E.I. Du Pont De NEMOURS & Co., Delaware, State of New York, U.S.A.	Emulsion type blasting agent.
59	132465	11-8-71	HINDUSTAN LEVER LTD., Backbay Reclamation, Bombay, India.	Preparing Antiperspirant composition.
60	132486	12-8-71	ALCAN RESEARCH AND DEVELOPMENT LTD., 1 Place Ville Marie, Montreal, Quebec, Canada.	Method of treating used carbon lining from an Aluminium cell.
61	132548	17-8-71	HINDUSTAN LEVER LTD., Backbay Reclamation, Bombay-20, India.	Soap Synthetic detergent tablets.
62	132564	18-8-71	JOHNS MANVILLE CORPN., 22 East 42nd Street, New York, U.S.A.	Bonding thermosetting resins to polymeric resins and polyvinyl chloride pipe products having a surface composition of said resins.
63	132576	19-8-71	ALCAN RESEARCH AND DEVELOPMENT LTD., Montreal Quebec, Canada.	Treating segregated material separated from a body of molten aluminium.
64	132622	23-8-71	UNIFOAM A.G. Kirchweg, Glarus, Switzerland.	Production of polymeric foam.

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65	132648	24-8-71	HOECHST A.G., Frankfurt/Main, FRG.	Preparation of Monoazo pigments.
66	132688	26-8-71	INSTITUTE FRANCAIS DU PETROLE DES CARBURANTS ET LUBRIFIANTS, France.	Catalytic hydrogenation of aromatic hydrocarbons to naphthanic hydrocarbons.
67	132736	1-9-71	USS ENGINEERS AND CONSULTANTS, INC., Pittsburgh, Pennsylvania, U.S.A.	Method of preventing high temperature blistering of copper coatings electrodeposited as copper substrates.
68	132766	3-9-71	UOP INC., 10 UOP Plaza, Illinois, U.S.A.	Improved hydrocarbon separation.
69	132782	4-9-71	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. The Hague, The Netherlands.	Preparing an improved catalyst for producing oxirane compounds.
70	132799	6-9-71	TEXACO DEVELOPMENT CORPN, 135 East 42nd Street, New York, U.S.A.	Catalytic cracking of naphtha.
71	132825	7-9-71	HOECHST A.G. Frankfurt/Main, FRG.	Manufacture of white or colour resists under phthalocyanin dyestuffs.
72	132827	8-9-71	SOLVAY & CIE, 33 rue du Prince Albert, B-1050, Brussels, Belgium.	Process for polymerization of Olefins.
73	132828	8-9-71	Do.	Do.
74	132830	8-9-71	Do.	Do.
75	132833	8-9-71	CIBA-GEIGY, A.G. 141 Klybeckstrasse, Basle, Switzerland.	Manufacture of New Diazo pigments.
76	132840	8-9-71	KONINKLIJKE NEDERLANDSCHE HOOGOVENS EN STAALFABRIKEN N.V. Ijmiden, The Netherlands.	Apparatus for the manufacture of Roasted, baked or sintered ore pellets.
77	132841	8-9-71	Do.	Method for Manufacturing baked pellets.
78	132854	9-9-71	TOYO ENGINEERING CORPN-2-5, 3-Chome, Kasumigaseki, Chiyoda-Ku Tokyo, Japan.	Manufacturing gaseous mixtures rich in hydrogen.
79	132858	9-9-71	KONINKLIJKE NEDERLANDSCHE HOOGOVERNS EN STAALFABRIEKEN N. V. Ijmiden, The Netherlands.	Manufacture of ore Pellets.
80	132878	13-9-71	UNION CARBIDE CORPORATION, 270 Park Avenue, New York 10017, U.S.A.	Separating normal paraffins from admixture with non-normal hydrocarbons.
81	132880	13-9-71	UNITED STATES BORAX AND CHEMICALS CORPN., 3075, Wilshire, Boulevard, Los Angeles, California, U.S.A.	Method of preparing alokoxy dinitro-aniline compounds.
82	132904	14-9-71	HOECHST A.G. Frankfurt/Main F.R.G.	Production of fluorescent dyed polyvinyl chloride articles.
83	132908	14-9-71	J. H. FENNER & CO. Marfleet, Hull Yorkshire, England.	A method of bonding a surface of polyvinyl chloride to a surface of Natural rubber or to a surface of a sulphur modified chloroprene elastomer.
84	132926	16-9-71	EXXON RESEARCH & ENGINEERING CO., Linden, New Jersey, U.S.A.	Chilling a solution of waxy oil in a liquid gaseous dewaxing solvent for crystallising wax in filterable form.
85	132930	16-9-71	HOECHST A.G. Frankfurt/Main FRG.	Manufacture of water-soluble fibre-reactive diazo dyestuffs and their metal complex compounds.
86	132995	21-9-71	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Production of reducing gas for blast furnace.
87	133022	23-9-71	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. The Hague, The Netherlands.	Decomposition of unconverted organic peroxy compounds present in the reaction product.
88	133047	24-9-71	UNION CARBIDE CORPORATION, New York, U.S.A.	Polymerising monomer change with Tetrahydrofuran modified catalyst.
89	133054	25-9-71	HALDOR FREDERIK AXEL TOPSOE, Vedback, Denmark.	A furnace for catalytic endothermic reactions and a process therefor.
90	133058	25-9-71	TEXAS U.S. CHEMICAL COMPANY, 1215, Main Street, Port Neches, Texas 77651, U.S.A.	Preparation of butadiene polymers.

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91	133124	5-10-71	HALDOR FREDERIK AXEL TOP-SPE, Denmark.	Method of catalytic decomposition of Ammonia.
92	133137	6-10-71	HOECHST A.G. Frankfurt/Main FRG.	Preparing water soluble monoazo dyestuffs.
93	133139	6-10-71	Do.	Manufacture of metal complex monoazo dyestuffs.
94	133146	6-10-71	KONINKLIJKE NEDERLANDSCHE HOOGOVENS EN STAALFABRIKEN N.V. Ijmuiden, The Netherlands.	Communicating dry material by crushing, grinding or milling.
95	133172	7-10-71	ETAT FRANCAIS, 4 Avenue de la Poste desy 75015 Paris, France.	Manufacture of Phosgene.
96	133233	14-10-71	MEAD CORPORATION, Tulcbolt Tower, Dayton, Ohio, U.S.A.	Improved Reduction-Oxidation Process.
97	133241	15-10-71	SHELL INTERNATIONALE RE-SEARCH MAATSCHAPPIJ B.V. The Hague, The Netherlands.	Process for the production of methanol.
98	133297	21-10-71	Do.	Production of metallic silver deposits on the surface of porous refractory catalyst support.
99	133325	22-10-71	FARBWERKE HOECHST A.G. 45, Bruningstrasse, Frankfurt/Main, FRG.	Manufacture of Benzimidazolone (2).
100	133326	22-10-71	N.L. INDUSTRIES INC. 111 Broadway, New York, 10006, U.S.A.	Continuously leaching titaniferrous material.
101	133347	25-10-71	HORIZONS RESEARCH INCORPORATION, 23800. Merchantile Road, Cleveland, Ohio, U.S.A.	Preparing Curable fluorophosphazene polymers.
102	133378	27-10-71	HOECHST A.G. Frankfurt/Main FRG.	Manufacture of New water soluble fibre reactive azo dyestuffs.
103	133408	29-10-71	UNION CARBIDE CORPORATION, New York, U.S.A.	Selective adsorption gas separation process.
104	133411	29-10-71	UOP INC. Des Plaines, Illinois, U.S.A.	Converting a hydrocarbon feed into lower boiling hydrocarbon products.
105	133448	3-11-71	HINDUSTAN LEVER LTD., Bombay, N.S. INDIA.	Toothpaste composition.
106	133449	3-11-71	Do.	Colourant Compositions for keratinous fibres.
107	133548	9-11-71	S.T.X. 5 Bis rue de Berri, Paris 8 e France.	Dying Textile fibres of basic character in an unhydrous medium.
108	133549	9-11-73	THE DOW CHEMICAL CO., Midland, Michigan, U.S.A.	Regeneration of copper oxide & copper chromite catalysts.
109	133596	12-11-71	S.T.X Paris, France.	Treating Textile fibres and fabrics.
110	133599	12-11-71	SPOLANA NARODNI PODNIK Nartovic, Czechoslovakia.	Continuously preparing perchloromethyl mercaptan.
111	133612	15-11-71	EXXON RESEARCH & ENGINEERING CO. Linden, New Jersey, U.S.A.	Lithium Soap grease.
112	133625	15-11-71	HALDOR FREDERIK AXEL TOP-SOE Denmark.	Manufacture of ethyl alcohol.
113	133659	17-11-71	CIBA OF INDIA LTD. Aurey Road, Goregaon East, Bombay-62, Maharashtra, India.	Manufacturing azo compounds.
114	133660	17-11-71	UBE INDUSTRIES LTD., 12-32, 1-Chome Nishihommachi, Yamaguchi-Ken, Japan.	Preparation of oxidation catalyst.
115	133677	19-11-71	FARBWERKE HOECHST A.G. 45 Bruningstrasse, Frankfurt/Main, F.R.G.	Manufacture of water-soluble monoazo dyestuffs.
116	133710	23-11-71	Do.	Manufacture of copper complex monoazo dyestuffs.
117	133711	23-11-71	THE LUBRIZOL CORPN. Cleveland, Ohio, U.S.A.	Flocculating solids suspended in an aqueous medium.
118	133733	25-11-71	NILUX HOLDING SOCIETE ANONYME, 1 Place de la Gore, Luxembourg.	Segregation process for recovery of Metal.
119	133734	25-11-71	CIBA-GEIGY (UK) Ltd. 30 Buckingham Gate, London SW1E 6 LH, England.	Treatment of water system for preventing scale formation.

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120	133782	29-11-72	SHELL INTERNATIONALE RE- SEARCH MAATSCHAPPIJ B. V., The Hague, The Netherlands.	Manufacture of synthetic fibres.
121	133797	30-11-71	MITSUBISHI ACETATE CO. LTD., 3-19, Kyobashi 2-Chome, Chuo- Ku, Tokyo, Japan.	Cellulose acetate fibre tobacco smoke filter.
122	133819	1-12-71	HOECHST A.G., Frankfurt/Main, FRG.	Manufacture of water soluble metal complex monoazo dyestuffs.
123	133840	3-12-71	Do.	Manufacture of water soluble metal complex monoazo dyestuffs.
124	133852	6-12-71	SHELL INTERNATIONALE RE- SEARCH MAATSCHAPPIJ B.V., The Hague, The Netherlands.	Preparing an Olofin polymer.
125	133912	10-12-71	NILUX HOLDING SOCIETE AN- ONYME, Luxembourg.	Beneficiation of ores.
126	133914	10-12-71	BURROUGHS CORPORATION, Second Avenue, Detroit, Michigan 48232, U.S.A.	Gas cell and liquid cell displaying device.
127	133928	13-12-71	SHOWA DENKO K.K., 34 Shiba Miyamoto-Cho, Minato-Ku, Tokyo, Japan.	Sintered agglomerates.
128	133956	15-12-71	SNAMPROGETTI S.P.A. 16 Cor- sovona Milan, Italy.	Recovery of aromatic hydrocarbons from mixtures.
129	133969	16-12-71	Do.	Recovery of isoprene from mixtures containing the same.
130	133974	16-12-71	FIBREGLASS LTD. 211-212, Martius Building, Water Street, Liverpool L2 35R, Lancaster, England.	Preparation of bonded glass fibres product.
131	133975	16-12-71	Do.	Do.
132	133997	18-12-71	MITSUMI PETROCHEMICALS INDUS- TRIES LTD. 2-5, 3-chome, Kasumi- gaseki, Chiyoda-Ku, Tokyo, Japan.	Production of Terephthalic acid.
133	134003	18-12-71	ARTOS GESSELL SCHAFT Etc. 2092, Merschau, Ueber Winson (Luhel) FRG.	Heat Treatment of web-like material.
134	134016	20-12-71	CEKOSLOVENSKA AKADEMIE VED, Praha, Czechoslovakia.	Producing thin-walled articles from plastics or rubber.
135	134023	21-12-71	SHELL INTERNATIONALE RE- SEARCH MAATSCHAPPIJ B.V., The Hague, The Netherlands.	Recovery of ethylene oxide.
136	134030	21-12-71	THE OIL TECHNOLOGICAL RE- SEARCH INSTITUTE, Ananthpur- 515001, Andhra Pradesh, India.	Process of decuticling sesamo seeds.
137	134070	27-12-71	STAMICARBON B.V. P. O. Box 10, Calce, The Netherlands.	Urea.
138	134076	27-12-71	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis Mis- souri, U.S.A.	Vulcanization of vulcanizable diene rubber.
139	134092	17-7-72	HINDUSTAN LEVER LTD. 165/166, Hindustan Lever House, Backbay Reclamation, Bombay India.	Manufacture of Oil from exhausted spent earth.
140	134099	28-12-71	UNIVERSAL OIL PRODUCTS INC., 10 UOP Plaza Des Plaines, Illinois, U.S.A.	Hydrocarbon separation process.
141	134107	28-12-71	HOECHST A.G. Frankfurt/Main, FRG.	Manufacture of water soluble fibre reactive azo dyestuffs.
142	134135	30-12-71	SNAMPROGETTI S.P.A. 16 Corso Venezia, Milan Italy.	Separation of conjugated diolefins from mixtures.
143	134146	31-12-71	CLUETT, PEABODY & CO. INC. 433 River Street, Troy, New York, U.S.A.	Apparatus for quickly treating fabrics with liquid ammonia.
144	134147	31-12-71	SINLOHI CO., No. 38, Nishinoshi- mono-Cho, Konohana, Osaka-shi, Japan.	Preparation of coloured resin particles.
145	134151	31-12-71	HOECHST A.G. Frankfurt/Main, FRG.	Preparation of basic oxazine dyestuffs.
146	134152	31-12-71	Do.	Preparation of water-soluble monoazo dyestuffs.
147	134156	22-8-72	C.S.I.R. Rafi Marg, New Delhi, India.	Manufacture of bromine from bittern.

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148	134187	5-1-72	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York, U.S.A.	Adsorption process for recovery of Nitrogen oxides from gas streams.
149	134189	5-1-72	UOP, INC., Des Plaines, Illinois, U.S.A.	Preparation of Improved hydro desulphurization catalyst.
150	134190	5-1-72	ALCAN RESEARCH AND DEVELOPMENT LTD, 1 Place Ville Marie Montreal, Quebec, Canada.	Aluminium Recovery method.
151	134208	6-1-72	HOECHST A.G. 6230 Frankfurt/Main 80, FRG.	Shaped articles made of thermoplastic moulding compositions of polymethylenes.
152	134209	6-1-72	HOECHST A.G., 6230 Frankfurt/Main 80, FRG.	Manufacture of Dyestuff preparation comprising disperse dyestuff and resinic acid.

LIST NO. III

'COMMERCIAL WORKING OF PATENTED INVENTIONS'

The following Patents in the field of General and Mechanical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of Calendar year 1978, generally on account of want of requests for licences to work the patented inventions. Persons who are interested to commercially work the said Patents may contact the Patentee for the grant of a licence for the purpose.

S. No.	Patent No.	Date of Patent	Name and address of Patentee	Brief title of the Invention
1	2	3	4	5
1	134669	18-2-72	Envirotech Corp., 537, West Sixth South Lake City, Utah, U.S.A.	Agitator drive assembly for drum type filters.
2	134673	19-2-72	Wilhelm Hegler; 731 Oerlinbach, West Germany.	Apparatus for production of transversely profiled plastic pipe.
3	134677	19-2-72	USS Engineers and Consultant Inc; 600 Grant Street, Pittsburgh, Pennsylv- ania, U.S.A.	Apparatus for controlling weight and distribution of coating on a substrate.
4	134693	21-2-72	Dunlop Ltd., Dunlop House, Ryder Street, St. Jame's, London, SW 1, England.	Manufacture of tyres.
5	134721	23-2-72	C.A.V. Ltd., Well Street, Birmingham, 19, England.	Governor Mechanism.
6	134722	23-2-72	USS Engineers and Consultants Inc; U.S.A.	Adjustable conducting roll apparatus.
7	134738	27-8-70	Girling Ltd., King's Road, Tyseley, Birmingham, 11, Warwickshire, Eng- land.	Servo Motors for vehicle brakes.
8	134748	25-2-72	Institut De Recherches De La Sider- urgie Francaise, 185, rue, President Roosevelt, 78, Saint Germain-en- Laye, France.	Metal feed supply of metallurgical plants which require regular flow of molten metal.
9	134816	2-3-72	Globe-Union Inc; 3757, Green Bay Avenue, Milwaukee, Wisconsin 5321, U.S.A.	Industrial type variable speed centrifuge.
10	134848	6-3-72	J.P. Palkhiwala, 20 Jain Merchant Society, Ahmedabad-7, Gujarat, India.	Differential Mechanism.
11	134889	9-3-72	Girling Ltd., King's Road, Tyseley, Bir- mingham, 11, Warwickshire, England.	Sliding caliper disc brakes.
12	134890	9-3-72	Do.	Sliding Caliper disc brakes.
13	134902	10-3-72	Dunlop Ltd., Dunlop House, Ryder Str., St. Jame's London, Swly, 6PX, England.	Power transmission conveyor and vehicle tract belts.
14	134970	17-3-72	USS Engineers and Consultants Inc; U.S.A.	Determining the true temperature of surface from hte radiation emit- ting from the surface.
15	134975	17-3-72	Wilhelm Stahlecker G.m.b.H; D-7341 Reichenbach bei Gelslingen, West Germany.	Break or open end spinning rotor or tur- bine.
16	134978	18-3-72	C.S.I.R., Rafi Marg, New Delhi-1.	A Strain gauge blood pressure trans- ducer.
17	134991	20-3-72	Repla International, Blvd, Nepolean, Luxembourg.	Producing article catching strip.

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18	135000	20-3-72	Vysoke Ucení Technike, Barro, Czechoslovakia,	Injection unit of injection pump of combustion engine.
19	135018	22-3-72	Girling Limited, England.	Seal for sealing an annular space and such seal in combination with a master cylinder assembly.
20	135069	27-3-72	Thermo King Corp; Minneapolis, Minnesota, U.S.A.	A compressor refrigerant system employing a fluorocarbon refrigerant.
21	135084	28-3-72	Automotive Products Ltd; Techbrook Road, Lamington Spa, Warwickshire, CV 31 3ER, England.	Friction clutches.
22	135102	29-3-72	Emhart Industries Inc; 426 Colt Highway, Farmington, Connecticut, U.S.A.	Making glassware by a press and blow technique.
23	135128	3-4-72	Saint Gorbain Indu; 62 Blvd Victor Hugo, Neuilly-sur-seine, France.	Apparatus for the manufacture of fibres from molten thermoplastic.
24	135131	3-4-72	Dunlop Holdings Ltd; Dunlop House, Ryder Str; St. James's, London, SW1, England.	Pneumatic tyres.
25	135151	4-4-72	U.S.S. Engineers, and consultants inc; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Operating mechanism for slidable gate closures.
26	135176	5-4-72	McNeil Corp; 96 East Crosier Street, Akron, Ohio-44311, U.S.A.	Apparatus and method for controlling manufacturing process.
27	135186	6-4-72	U.S.S. Engineers and Consultants Inc; U.S.A.	Apparatus for replacing a holder for pouring tube on a bottom pour vessel.
28	135252	12-4-72	Oporto Ceramics Ltd; 324 Meanwood Road, Leeds, Yorkshire, England.	Device for severing tiles.
29	135349	12-8-70	Roychem Corp; 309 Constitution Drive, Menlo Park, California-94025, U.S.A.	Heat recoverable metallic coupling.
30	135369	25-5-72	Girling Ltd; King's Road, Tyseley, Birmingham-11, Warwickshire, England.	Fluid level indicating devices.
31	135428	26-4-72	Thomas Walker Ltd; 39 St. Paul's Square, Birmingham B 3 10Y, England.	Fastening devices.
32	135450	23-7-71	Sealed Power Corp; 2001 Sanford Street, Muskegon, Michigan, 49443, U.S.A.	Manufacture of spacer expanders.
33	135451	23-7-71	Do.	Do.
34	135452	23-7-71	Do.	Do.
35	135453	23-7-71	Do.	Do.
36	135454	5-7-72	Ruti Machinery Works Ltd., CH-8630 Ruti, Zurich, Switzerland.	A device for braking the picker of a loom.
37	135463	7-8-72	Linden-Alimak AB; 93103, Skelleftea, Sweden	A lift assembly with drift mining equipment for driving raises and the like in rock.
38	135473	25-7-72	Dunlop Ltd; Dunlop House, Ryder Str; St. James's London SW1, England.	Wheel assemblies.
39	135474	25-7-72	Do.	Do.
40	135495	1-10-71	Associated Engineering Ltd; 60 Kenilworth Rd., Lamington Spa, Warwickshire, England.	Fuel pressure regulator.
41	135497	15-6-72	Imperial Chemical Industries Ltd., Imperial Chemical House, Mill Bank, London SW1, England.	Apparatus for controlled feeding of powdered material.
42	135503	12-7-72	U.S.S. Engineers and Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Expansive cement and method of manufacture.
43	135506	12-6-72	Midland-Ross Corp; 55 Public Square, Cleveland, Ohio-44113, U.S.A.	Railway car coupler and spring guide assembly for the same.
44	135547	4-7-72	Tadeusz Sendzimir, 269 Brookside Road, Waterbury, Connecticut, 06720, U.S.A.	Rolling mills.
45	135562	1-8-72	Envirotech Corp; 537, West Sixth South Salt Lake City, Utah, U.S.A.	Apparatus for rotary filters.
46	135565	6-9-72	Combustion Engg. Inc; 1000 Prospect Hill Road, Windsor, Connecticut, U.S.A.	Manufacture of pipe bends from Cold formed half tori and an apparatus for cold forming torus.

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47	135574	17-5-72	Midland-Ross Corp; U.S.A.	Railway car coupler.
48	135577	1-8-72	Combustion Eng. Inc; 1000 Prospect Hill Road, Windsor, Connecticut, U.S.A.	Ionic flame monitor.
49	135602	16-5-72	Westinghouse Air Brake Co; Pittsburgh, Pennsylvania, U.S.A.	Quick service valve device for uid pressure brake system.
50	135632	30-8-72	British Steel Corp; 33 Grosvenor Place, London SW1, England.	Internal Bead trimmers.
51	135643	11-9-72	Dunlop Limited, Dunlop House, Ryder Street, St. James's London SW1, England.	Tyres.
52	135666	26-6-72	Extracorporeal Medical Specialties Inc; Royal and Rose Rds., King of Prussia, Pennsylvania, U.S.A.	Separable surgical needle.
53	135667	25-10-72	Combustion Enggl. Inc; Prospect Mill Road, Windsor, Connecticut, U.S.A.	Briquetting press with briquette removal mechanism.
54	135668	25-10-72	Do.	Ram tip screwing arrangement.
55	135685	17-8-72	Anderson, Clayton and Co., 1010 Milan Street, 14th Fl., Tenneco. Bldg., Mouston, Texas—77002, U.S.A.	Seed delinter.
56	135712	9-6-72	Palitex Project-Co; GmbH; 4510 Krefeld, West Germany.	Scrapping roller.
57	135717	16-9-72	Metropolitan Tool and Products Ltd., Lilac Grove, Beeston, Nottingham NG 91 PG, England.	Drive arrangements forcable reeling drums.
58	135736	21-8-72	Jervis B. Webb Co; 9000 Alpine Avenue, Detroit, Michigan-48204, U.S.A.	Conveyor system.
59	135737	14-7-72	Girling Limited, England.	Railway brakes.
60	135743	9-8-72	Hepworth and Grandage Limited, St., Johns Works, Bradford 4, Yorkshire, England.	Light metal piston for I-C engines or compressors.
61	135762	1-7-72	Palitex Project-Co; GmbH; Weeserweg 8,4150 Krefeld, West Germany.	A device for braking and stopping a spinning or twisting spindle, more especially a double spindle in specific piston of spindle.
62	135773	8-9-72	Wilhelm Stahlecker GmbH; D-7341, Reichenbach bei, Geislingen Steige, W. Germany.	Mounting for open-end or break spinning machines.
63	135774	8-9-72	Wilhelm Stahlecker GmbH; D-7341 Reichenbach bei, Geislingen Steige, West Germany.	Open end spinning machines.
64	135776	16-8-71	Brico Engineering Limited, Holbrook Lane, Coventry, Warwickshire, England.	Making fuel injectors.
65	135804	8-9-72	Anglo American Corp. of South Africa Limited, 44, Main Street, Johannesburg, Transvaal, Republic of South Africa.	Decking device for mine cages and the like conveyances.
66	135815	5-5-72	Politex Project Co; GmbH, Weeserweg 8, 4150, Krefeld, West Germany.	A belt drive with [a belt tensioning device.
67	135816	13-7-72	Elkem-Spigerverket A/S; Elkemburst, Middlethungaten, 27 Oslo, Norway.	Rotatable gas tight valve.
68	135825	15-5-72	Wilkinson Sword Limited, Sword Works Southfield Road, London W-4 England.	Razor Blade holders.
69	135826	25-5-72	Emhart Industries Inc; 426 Colt Highway, Farmington, U.S.A.	Drive for a container processing machine.
70	135836	1-7-72	Politex Project Co; GmbH, Weeserweg 8, 4150 Krefeld, West Germany.	Spinning or twisting machine especially a double-thread twisting machine.
71	135837	10-8-72	Honshu Swishi Kabushiki Kaisha; No. 12—8, 5-Chome Ginza, Chuo-ku, Tokyo.	Method and apparatus for producing a paper core.
72	135869	27-6-72	"Redox" Desenvolviment E Exploracoes De Processos Sidergicos Ltd., Rue Pasteur 543, Curitiba (Parana) Brazil.	Direct Product of [Steel.
73	135880	4-10-72	Combustion Engg., U.S.A.	A mechanical separator.

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74	135881	25-7-72	(1) Franklin G. Reick of 228 West Place, West Wood, N. Jersey, U.S.A. (2) Joseph Richard of 151 West 86th Street, N.Y., N.Y., U.S.A. (3) Fredrick R. Picut of Rt. 22, Driveway No. 4, Mountain Side N. Jersey, U.S.A.	Surgical Evacuators.
75	135888	8-8-72	Fibreglass Limited, 201-211, Martins Bldg., Water Street, Liverpool 12, 3SR, Lancashire, England.	Winding apparatus.
76	135892	26-10-72	Girling Limited; King's Road, Tyseley, Birmingham 11, England.	Shoe drum brakes.
77	135904	21-4-72	Chief Controller R & D Organisation, Ministry of Defence, Govt. of India, New Delhi.	A height corrector or compensator.
78	135905	21-4-72	Do.	Vibration isolation device.
79	135912	8-8-72	Platt International Limited, Hootford, Works, Oldham, Lancashire, England.	Open and spinning of textile yarns.
80	135914	8-5-72	Girling Limited, England.	Disc Brakes.
81	135917	8-6-72	Dunlop Limited; Dunlop House, Ryder Street, St. James's, London, SW1, England.	Tyre building apparatus.
82	135919	24-4-72	Platt International Limited; Harford, Works, Oldham, Lancashire, England.	Textile carding machine.
83	135933	24-10-72	Girling Limited, England.	Tandem master cylinder for hydraulic braking system.
84	135935	22-11-72	Girling Limited, England.	Internal shoe drum brakes.
85	135936	15-7-72	Polysar Limited (Formerly known as Polymer Corp; Limited) Sarnia, Ontario, Canada.	A liquid curable composition, a process, equipment such as used for processing and transporting slurries and corrosive liquids and process for protecting the surfaces thereof.
86	135943	30-10-72	Stora Kopparbergs Bergscags AB; Folum, Sweden.	Simultaneous combined production of electrical energy and crude irons.
87	135932	25-4-72	Elkem Spigerverket A/S; Middle thungate 27, Oslo, 3, Norway.	Production of refractory materials.
88	135980	28-4-72	The Jacobs Manufacturing Co., Limited, Archer Tool Works, Archer Road, Sheffield 8, England.	Drill Chucks.
89	135993	26-6-72	USS Engineers and Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Temperature sensing device for continuous casting mould.
90	136000	3-8-72	C.A.V. Limited, Well Street, Birmingham 19, England.	Rotary sliding valve pump.
91	136030	14-4-72	Westinghouse Electric Corp; Pittsburgh, Pennsylvania, U.S.A.	Signal receiving apparatus for vehicle control system.
92	136034	15-4-72	N.L. Industries Inc; 1221, Avenue of Americas, N.Y.N.Y. 10020, U.S.A.	Sintered Unitary Ceramic Bodies and Method of making them.
93	136046	13-7-72	Glaverbel Macaniver; 166 Chaussee de la Hulpe, Watermaelboitsfort; Belgium.	Manufacturing flat glass.
94	136062	22-6-72	Girling Limited, England.	Disc for vehicles.
95	136072	16-8-72	Libbey Owens Ford Co.; 811 Madison Avenue Toledo Ohio U.S.A.	Bending and tempering glass sheets.
96	136077	18-7-72	BICC Limited; Formerly known as British Insulated Callender's Cables Limited 21 Bloomsbury street, London WC1B 3DN England.	Apparatus for drawing wires.
97	136080	12-7-73	Societe d Equipments; 114 bis rue Michel-ange, 75016, Paris, France.	Loading material into a container.
98	136084	13-7-72	Glaverbel Mecaniver; 166 Chaussee de la Hulpe, Watermaelboitsfort, Belgium.	Manufacturing sheet glass.
99	136087	21-9-72	Caterpillar tractor Co; 100 N.El Adams Street, Peoria, Illinois-61629, U.S.A.	Track idler wheel.

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100	136098	4-7-72	Johnson and Johnson; 501 George Street, New Brunswick, New Jersey, U.S.A.	Dispensing container.
101	136099	25-8-72	Zimmer Ag; 6 Frankfurt/Main, Bergsgalee, G.F.R.	Stretching a cable of polyester threads.
102	136103	4-1-72	Chicago Pneumatic Tool Co.; 6 East 44th Street, N.Y.N.Y. 10017, U.S.A.,	Crimping mechanism in a nut-runner.
103	136104	4-1-72	Do.	Nut crimping mechanism.
104	136114	2-6-72	U.S.S. Engineers and Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Laminated iron core induction corner hating Unit.
105	136126	16-9-72	Deer and Co; Moline, Illinois U.S.A.	Self levelling combine.
106	136127	30-10-72	RCA Corp; 30 Rockefeller Plaza, N.Y.N.Y. 10020, U.S.A.	Method of correcting defective photomark.
107	136137	15-3-72	The Gillette Co; Prudential Tower Bldg., Boston, Massachusetts, U.S.A.	Disposable razor blade unit.
108	136138	15-3-72	Do.	Razor Blade Unit.
109	136147	25-8-72	International Housing Limited; P.O. Box 1379 Pembroke, Bermuda.	System for making cast in place concrete Structures.
110	136151	29-8-72	Industrie Pirelli Societies Per Azione, Central Pirelli, 20100 Milan, Italy.	Joining belt and in conveyer belts, flat transmission belts and like.
111	136164	7-7-73	Spamprogetti S. p.A. 16 Corso Venezia, Milan, Italy.	Vehicles.
112	136171	27-7-72	Industrie Pirelli Societie Per Azioni, Centro Pirelli, Piazzl Duca D'Asota No. 3, Milan 20110, Italy.	Pneumatic vehicle tyres.
113	136178	6-2-74	Krishna Ramchandra Darcy, Amit Building, Flat No. 10, Nehru Road, V. Parle, Bombay-4000571	Strengthening natural soft ground.
114	136186	22-11-72	Girling Limited, King's Road, Tyseley, Birmingham 11, England.	Brake shoe adjuster.
115	136191	25-1-73	Max Gerbahe, 844, strabing Niederhym, Stadtgraben 21 G.F.R.	A extruded roofing tile.
116	136205	13-10-72	Dr. C. Otto Comp. GmbH; Christ Strasse 9, Postfach 1849/1850, 463 Bochum, W. Germany.	Vertical regenerator for horizontal coke ovens.
117	136214	30-5-72	Actief N.V. Handlesheade 24, Willenstad, Curacao, Netherlands.	Fastener.
118	136227	20-6-72	Fichtel and Sachs Ag; 872 Schienfurt, am Main, Ernst-Sachsstrasse-62, F.R.G.	A combustion engine.
119	136231	31-8-72	C.A.V. Limited, Well Street, Birmingham 19, England.	Liquid fuel injection pumping apparatus.
120	136233	9-5-72	U.S.S. Engineers and Consultants Inc; U.S.A.	Self aligning and flexing guide-roll rock.
121	136234	9-5-72	Do.	Continuous casting machine.
122	136239	27-4-72	Fisons Limited ? Fison House, 9 Grosvenor Street, London, England.	Prilling Head.
123	136241	28-6-72	Battelle Development Corp; 505 King Avenue, Columbus, Ohio, U.S.A.	Flexural strength in fibre.
124	136248	12-7-72	Kampen Industries Inc; 3202, Larkstone Drive, Orange California 92667, U.S.A.	Making composite laminate.
125	136278	26-10-72	Envirotech Corp; 537 West Sixth South Salt Lake City Utah, U.S.A.	Structure in sedimentation tank.
126	136279	17-2-73	Thyssen Purofer GmbH; 42 Oberhausen, Essener Street, 66, F.R.G.	Flap type closure on draw off apparatus for spongy Iron.
127	136287	29-8-72	Garad Blum; 12, rue port, Prouiller, La Tronche, Isere, France.	Measurement of the area of flat flexible articles.
128	136330	15-1-72	Ethicon Inc; Somerville, N. Jersey, U.S.A.	Retintion suture bridge.
129	136332	6-12-72	Carborundum Universal Limited, 11/12, North Beach Road, Madras-1.	Scrubbing and mopping pads.
130	136350	21-6-72	Westinghouse Electric Corp; Pittsburgh, Pennsylvania, U.S.A.	Thermosettable Pressure sensitive adhesive tape.
131	136351	23-7-71	Abildgaard Laboratories Inc; 857, Mende Avenue, Mountain View, California 94040, U.S.A.	Forming cased books.
132	136354	3-5-72	Dunlop Limited; Dunlop House, Ryder street, St. James's, London, SW1, England.	Pneumatic tyres for Aeroplanes.

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133	136385	31-8-72	Norman John Garrod; Great Common; Bletchingley, Surrey, England.
134	136387	28-9-72	U.S.S. Engineers and Consultants Inc; U.S.A.
135	136393	28-6-72	Sciaky Inter technique S.A. Switzerland.
136	136398	13-12-72	Knorr Bremse GmbH; 80 Moosacherstrasse, 8 Munchen 13, F.R.G.
137	136404	12-6-72	Thomas Walker Limited, 39 St., Paul's square, Birmingham B3 1QY E England.
138	136413	21-5-73	Siemens AG; Berlin and Munich, West Germany.
139	136422	11-7-72	S.A. Des Anciens Etablissement Paul Warth; 32 Rue D' alsace Luxembour;
140	136426	16-9-72	Allegheny Ludlum Industries; 2000 Oliver Bldg., Pittsburgh, Pennsylvania, U.S.A.
141	136427	19-10-72	Palitex-Project-company, GmbH; Weeserweg 8,4150 Krefeld, West Germany.
142	136438	24-4-72	(1) Snamprogetti S.p.A. 16 Corso Venezia, Milan Italy. (2) Protezione Ricerca Industrial S.A.; Via Pretorio, 7, Lugano, Switzerland.
143	136454	12-6-72	James Alexander Mackenzie, 100 Bronson Avenue, Ottawa, Ontario, Canada.

RENEWAL FEES PAID

97254 97390 97451 97475 97521 97614 97662 97763 97774
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 137855 137937 137960 138060 138260 138511 138534 138596
 138626 138733 138897 138902 139044 139181 139533 139557
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 142576 142633 142771 142848 142854 143017 143043 143101
 143156 143281 143486 143719 143923 143984 144072 144269
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 145750 145753 145765 145850 145905 145942

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 138561 granted to The Fertilizer Corporation of India Ltd. for an invention relating to "Magnetic level indicator transmitter". The patent ceased on the 3rd May 1978 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 19th May 1979.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 2nd April, 1980 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which the bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

Class 1. No. 148346. A/S N. Foss Electric of Slangerupgade 69, DK-3400 Hillerod, Denmark, a company organized and existing under the laws of Denmark. "A Milk Analyzing Apparatus". April 21, 1979.

Class 1. No. 148350. President Electrical Industries, 6672, Gali Beri Wali, Abata Kedara, Bara Hindu Rao, Delhi-110006, a firm registered under the Partnership Act, 1932. "Toaster". April 23, 1979.

Class 1. No. 148352. Enem Electrical & Mechanical Engineers (a registered partnership firm) of 13, Shirin Chambers, 3rd floor, 348-350, Samuel Street, Bombay-400003, State of Maharashtra, India. "Stretching Clamp". April 23, 1979.

Class 1. No. 148373. President Electrical Industries, 6672, Gali Beri Wali, Abata Kedara, Bara Hindu Rao, Delhi 110006, a firm registered under the Indian Partnership Act, 1932. "Toaster". April 23, 1979.

Class 1. No. 148375. Kishen Govind Panje, an Indian National of East Nehru Nagar, Secunderabad-500026, A.P., India trading as Kishen Manufacturing Company. "Electric Geysers". April 24, 1979.

- Class 1. No. 148383. King Metal Industries, 10D, Tacker Industrial Estate, N. M. Joshi Marg, Bombay-11, Maharashtra State, Indian Partnership Firm. "Door Eye". April 27, 1979.
- Class 1. No. 148388. Saifuddin & Brothers, an Indian Partnership Firm of 4/13, C. Saboo Siddick Road, Off Palton Road, Bombay-400001, Maharashtra, India. "Clip". April 29, 1979.
- Class 1. No. 148529. Madan Mohan Walia 'Hemchaya' Flat No. 1B, 40 Old Ballygunge Road, Calcutta-700019, West Bengal, India of Indian Nationality. "Composite Portable Multi Purpose Rack". June 16, 1979.
- Class 1. No. 148534. Racold Appliances Pvt. Ltd., an Indian Company of "Vandhna", 12th floor, 11, Tolstoy Marg, New Delhi-110001, India, "Heating elements". June 18, 1979.
- Class 1. No. 148563. Messrs. Renvik Electricals, Indian Partnership firm of 5, Stock Exchange New Building, Apollo Street, Fort, Bombay-400023, State of Maharashtra, India. "Soldering iron". June 22, 1979.
- Class 1. No. 148568. Indian International Traders an Indian sole proprietors firm of 8, Wahid Mansion C.S.T. Road, Kurla, Bombay-400070, Maharashtra, India. "Glass Holder". June 25, 1979.
- Class 3. No. 148312. Ashwin Hasmukh Mody and Bharat Hasmukh Mody, Indian National of 323 Arun Chambers, Tardeo, Bombay-400034, Maharashtra State. "Curtain tracks". April 16, 1979.
- Class 3. No. 148313. Ashwin Hasmukh Mody and Bharat Hasmukh Mody, Indian National of 323 Arun Chambers, Tardeo, Bombay-400034, Maharashtra State. "Curtain tracks". April 16, 1979.
- Class 3. No. 148314. Ashwin Hasmukh Mody and Bharat Hasmukh Mody, Indian National of 323 Arun Chambers, Tardeo, Bombay-400034, Maharashtra State. "Curtain tracks". April 16, 1979.
- Class 3. No. 148315. Ashwin Hasmukh Mody and Bharat Hasmukh Mody, Indian National of 323 Arun Chambers, Tardeo, Bombay-400034, Maharashtra State. "Curtain tracks". April 16, 1979.
- Class 3. No. 148348. Ishwarlal Nichhabhai Patel and Indian of Plot No. 2, Maheshwardeep, Plot No. 75, R. B. Mehta Road, Ghatkopar (East), Bombay-400077, Maharashtra, (India). "Filter Attachment to Tap". April 21, 1979.
- Class 3. No. 148381. The Bombay Oil Industries Private Limited of aKrunoor House, 281-287, Narsinatha Street, Bombay-400009, State of Maharashtra, India. "Bottle". April 26, 1979.
- Class 3. No. 148386. Plastic & Metal Devices (India), H.172, Ashok Vihar, Delhi-110052, India, an Indian Partnership Firm. "Pencil Sharpner". April 28, 1979.
- Class 3. No. 148527. Plastometal, of 10, Luckmudoss Street, Madras-600003, Tamil Nadu, India, an Indian Partnership Firm. "A Soap Box". June 15, 1979.
- Class 3. 148528. Plastometal, of 10, Luckmudoss Street, Madras-600003, Tamil Nadu, India, an Indian Partnership Firm. "A Soap Box". June 15, 1979.
- Class 3. 148533. Om Parkash & Sons, 1421-53/9, Gate Hakiman, Amritsar-143001, Punjab State, an Indian Partnership Concern. "Pen". June 18, 1979.
- Class 3. No. 148556. Prime Industries, E/3, Vishal Nagar, S.V. Road, Borvli, Bombay-400092, Maharashtra, an Indian Sole Proprietary Firm. "Key chain". June 22, 1979.
- Class 3. No. 148562. Messrs. Renvik Electricals, Indian Partnership firm of 5, Stock Exchange New Building, Apollo Street, Fort, Bombay-400023, State of Maharashtra, India. "Soldering iron". June 22, 1979.
- Class 4. No. 148540. Mohan Meakin Breweries Limited, an Indian Company, Solan Brewery P.O. 173214, Simla Hills, Himachal Pradesh, India. "Bottle". June 19, 1979.
- Class 4. No. 148564. Messrs. Renvik Electricals, Indian Partnership Firm of 5, Stock Exchange New Building, Apollo Street, Fort, Bombay-400023, State of Maharashtra, India "Soldering iron". June 22, 1979.
- Class 9. No. 148542. S. S. M. Brothers (P) Ltd., (a private limited company under the Indian Companies Act), of Post Box No. 8, 24/103, Gandhipuram, Komarapalayam-638183, Salem District, Tamilnadu, India. "Embroidery Fabrics". June 20, 1979.
- Class 9. No. 148543. S. S. M. Brothers (P) Ltd., (a private limited company under the Indian Companies Act), of Post Box No. 8, 24/103, Gandhipuram, Komarapalayam-638183, Salem District, Tamilnadu, India. "Embroidery Fabrics". June 20, 1979.
- Class 9. No. 148544. S. S. M. Brothers (P) Ltd., (a private limited company under the Indian Companies Act), of Post Box No. 8, 24/103, Gandhipuram, Komarapalayam-638183, Salem District, Tamilnadu, India. "Embroidery Fabrics". June 20, 1979.
- Class 9. No. 148545. S. S. M. Brothers (P) Ltd., (a private limited company under the Indian Companies Act), of Post Box No. 8, 24/103, Gandhipuram, Komarapalayam-638183, Salem District, Tamilnadu, India. "Embroidery Fabrics". June 20, 1979.
- Class 9. No. 148546. S. S. M. Brothers (P) Ltd., (a private limited company under the Indian Companies Act), of Post Box No. 8, 24/103, Gandhipuram, Komarapalayam-638183, Salem District, Tamilnadu, India. "Embroidery Fabrics". June 20, 1979.
- Class 9. No. 148547. S. S. M. Brothers (P) Ltd., (a private limited company under the Indian Companies Act), of Post Box No. 8, 24/103, Gandhipuram, Komarapalayam-638183, Salem District, Tamilnadu, India. "Embroidery Fabrics". June 20, 1979.
- Class 9. No. 148548. S. S. M. Brothers (P) Ltd., (a private limited company under the Indian Companies Act), of Post Box No. 8, 24/103, Gandhipuram, Komarapalayam-638183, Salem District, Tamilnadu, India. "Embroidery Fabrics". June 20, 1979.
- Class 9. No. 148549. S. S. M. Brothers (P) Ltd., (a private limited company under the Indian Companies Act), of Post Box No. 8, 24/103, Gandhipuram, Komarapalayam-638183, Salem District, Tamilnadu, India. "Embroidery Fabrics". June 20, 1979.
- Class 10. No. 147957. Gurmeet Plastic Industries, Gurdwara Road, Sagar, (M.P.), an Indian Partnership Concern, "Footwear". January 15, 1979.

S. VEDARAMAN,
Controller General of Patents,
Designs and Trade Marks.